

## ABSTRACT

The present invention relates to a system and method to implement an improved frame fragmentation protocol to facilitate efficient transmission of prioritized data. The system includes a sending unit transmitting a first frame  
5 fragment, the first frame fragment including a first data segment extracted from a low priority frame and a first frame fragmentation control information appended to the end of the first data segment. The system further includes a receiving unit receiving the first frame fragment transmitted by the sending unit.

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